

WHAT IS CLAIMED IS:

1. A computer program product including computer executable instructions stored on a computer readable medium, wherein the instructions, when executed by the computer, cause the computer to 5 perform:

creating structure information that indicates a relation between a program call structure and data input-output information of the computer program source code by analyzing a computer program source code;

10 creating process-outline information of the computer program source code from a part of the structure information; and

creating computer program specifications of the computer program source code by using the process-outline information.

15 2. The computer program product according to claim 1, wherein the creating of the process-outline information includes extracting information of a subroutine of a specific nesting level and data input-output information of the subroutine, and

the creating of the computer program specifications includes

20 using the information of the subroutine and the data input-output information of the subroutine.

25 3. The computer program product according to claim 2, wherein the computer program specifications created include a call structure diagram in a tabular form that has a plurality of columns assigned to

respective nesting levels of subroutines, wherein a name of each subroutine is shown in a column corresponding to a nesting level of the each subroutine.

- 5 4. The computer program product according to claim 1, wherein
 - the creating of the structure information includes creating structure information that indicates a relation between a program call structure and a program call condition,
 - the creating of the process-outline information includes creating
 - 10 process-outline information that indicates a relation between a program call structure and a program call condition, and
 - the creating of the computer program specifications includes creating computer program specifications that indicate a relation between a program call structure and a program call condition.
- 15
5. The computer program product according to claim 1, wherein
 - the creating the computer program specification further includes
 - extracting a comment that is added by a user to a predetermined position in the computer program specifications created;
 - 20 and
 - adding the comment extracted to a predetermined position in computer program specifications to be created.
- 6.
- 25 The computer program product according to claim 1, wherein
 - the instructions further cause the computer to perform:

creating program-outline information of the computer program source code by summarizing statements included in the computer program source code;

5 creating a program-outline statement in a natural language from the program-outline information; and

creating a program-outline document of the computer program source code by using the program-outline sentence.

7. The computer program product according to claim 6, wherein

10 the creating of the program-outline information includes

determining a significance level of data included in the computer program source code;

determining a significance level of a statement included in the computer program source code by using the significance level of data;

15 and

summarizing statements included in the computer program source code by using the significance level of the statement.

8. The computer program product according to claim 1, wherein

20 the instructions further cause the computer to perform:

extracting input-output information of a job step included in a batch job from a batch-job script described in a batch-job script language;

acquiring input information and output information of the overall

25 batch job based on the input-output information of the job step;

specifying a job step at which the information acquired is input or output;

extracting information of a computer program called at the job step specified; and

5 creating batch-job process-outline information of the batch job by using the input information specified, the output information specified, and the information of the computer program extracted.

9. The computer program product according to claim 1, wherein
10 the instructions further cause the computer to perform:

creating screen transition information by analyzing screen definitions which define information of a screen; and
creating a screen transition diagram by using the screen transition information.

15

10. The computer program product according to claim 9, wherein the screen definitions include information of transition between the screen and a computer program expressed in the computer program source code, the screen transition information includes information of
20 transition between the screen and the computer program, the instructions further cause the computer to perform:

creating merge diagram information in which the transition and input-output of the computer program are merged, by merging the screen transition information with the structure information, wherein

25 the creating of the screen transition diagram includes creating a

diagram in which the transition and the input-output of the computer program are merged, by using the merge diagram information.

11. An apparatus for creating computer program specifications,
5 comprising:

a first creator that creates structure information that indicates a relation between a program call structure and data input-output information of the computer program source code, by analyzing a computer program source code;

10 a second creator that creates process-outline information of the computer program source code from a part of the structure information; and

15 a third creator that creates computer program specifications of the computer program source code by using the process-outline information.

12. A method of creating computer program specifications,
comprising:

20 creating, by analyzing a computer program source code, structure information that indicates a relation between a program call structure and data input-output information of the computer program source code;

creating process-outline information of the computer program source code from a part of the structure information; and

25 creating computer program specifications of the computer

program source code by using the process-outline information.